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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,004	02/04/2004	Stephen W. Montgomery	42P17761	5370
8791 BLAKELY SO	7590 09/20/2007 OKOLOFF TAYLOR & Z	EXAMINER		
1279 OAKMEAD PARKWAY			MCCRACKEN, DANIEL	
SUNNYVALE	SUNNYVALE, CA 94085-4040		ART UNIT	PAPER NUMBER
			1754	
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			MAIL DATE	DELIVERY MODE
			09/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
		10/773,004	MONTGOMERY ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Daniel C. McCracken	1754			
۔۔ Period for	 The MAILING DATE of this communication app Reply 	ears on the cover sheet with the c	orrespondence address			
A SHC WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DAISONS of time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. Deeriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ F	Responsive to communication(s) filed on <u>25 Ju</u>	<u>ine 2007</u> .				
2a)⊠ ¯	This action is FINAL . 2b) This action is non-final.					
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
(closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 48	o3 O.G. 213.			
Dispositio	on of Claims					
5)	Claim(s) 1-10 is/are pending in the application. a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicatio	on Papers					
10)□ T , ,	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access a policy and a specific and any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority ur	nder 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureause the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
	of References Cited (PTO-892)	4) Interview Summary				
3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:				

DETAILED ACTION

Citation to the Specification will be in the following format (S. # : ¶) where # denotes the page number and ¶ denotes the paragraph number.

Response to Arguments

Applicant's arguments filed 6/25/2007 have been fully considered but they are not persuasive. With respect to the rejections under 35 U.S.C. 112, ¶1 the inquiry/analysis need go no further than the plain language of the statute:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

35 U.S.C. 112, ¶1 (emphasis added). Applicants urge that Figs. 1-3 of the instant application provide ample guidance for one of ordinary skill in the art to practice the invention. If the periodic table of the elements was actually a set of "Tinkertoys®," and "connecting atoms" was as simple as snapping pieces together, then yes, Figs. 1-3 would enable one of ordinary skill in the art as well as convey to one of ordinary skill that Applicants actually possessed the claimed invention. Regrettably, chemistry and Tinkertoys® are not the same thing.

The gravaman of both the written description and enablement rejections relates to the passage of §112 in bold typeface above. Applicants point out that working examples are not necessary, but the absence thereof is highly probative in cases like this where the guidance is so lacking. The Examiner has read Applicants' disclosure again and finds it devoid of any written guidance that details the "manner and process of making [the inventions]." 35 U.S.C. 112, ¶1. The Examiner has not found any passage in the specification related to the actual reagents used, process conditions (i.e. temperature, pressure, etc.), concentrations, chemical reactions, processes for purifying/isolating the product, etc. As drafted, there is but one mention of "chemistry" (that

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is, the manner and process of making the invention) at (S. 18: [0018]). Nanotube "opening reactions" reactions are admittedly old and known, and contribute nothing to the disclosure of the instant application. The Examiner does not consider "Figs. 1-3" to be "chemistry." If the synthesis of connector molecule is readily apparent from these figures, the Examiner would welcome evidence in affidavit form (37 CFR 1.132) that details how making a "connector molecule" like "C₁₉S₆H₂₄" is known in the art. Further, the Examiner would welcome affidavit evidence related to how one of ordinary skill in the art would take the "connector molecule" and "connect it" to the nanotube. Are the two connected with tweezers and Superglue under a highpower microscope? Do the two connect as Applicants urge, or in a different fashion? How is this ascertained? Is some sort of chemistry involved? Any affidavits should, of course, be accompanied by remarks pointing out where this guidance is found in the specification. If it is easier for Applicants than responding with appropriate affidavits, the Examiner would welcome a demonstration of this technology. Such a demonstration could potentially obviate the rejection under 35 U.S.C. 112. To be clear, the Examiner is requesting experimental evidence or affidavits be submitted. It was requested in the non-final office action and not provided. Attorney argument is not evidence. See MPEP 2145.

With respect to the rejection over Smalley, no difference is seen between the process recited by Smalley and that claimed by Applicants – *especially in light of the guidance provided* in the Specification. Nanotubes are connected into three-dimensional structures. (Smalley col. 13-14).

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Claim Rejections - 35 USC §§ 102, 112

The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

All rejections in the Non-final Office Action dated 3/22/2007 are expressly

incorporated herein by reference.

Conclusion

Patents are not granted for research plans. All amendments made in response to this

Office Action must be accompanied by a pinpoint citation to the Specification (i.e. page and

paragraph or line number) to indicate where Applicants are drawing their support.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel C. McCracken whose telephone number is (571) 272-

6537. The examiner can normally be reached on Monday through Friday, 9 AM - 6 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel C. McCracken Assistant Examiner

DCM

Stuart L. Hendrickson Primary Examiner